IN THE CLAIMS

Please amend the claims as follows:

- 1. (Previously Presented) An isolated polynucleotide according to Claim 5 which encodes a protein comprising the amino acid sequence of SEQ ID NO:2.
- 2 (Canceled) The isolated polynucleotide of Claim 1, wherein said protein has LuxR transcriptional activation activity.
- 3. (Previously Presented) An isolated polynucleotide according to Claim 5, which comprises SEQ ID NO:1.
- 4 (Currently Amended): An isolated polynucleotide which is complimentary to an isolated polynucleotide comprising SEQ ID NO:1 the polynucleotide of Claim 3.
- 5. (Currently Amended) An isolated polynucleotide which is at least 70% identical to a polynucleotide comprising the nucleic acid sequence of SEQ ID NO: 1, The isolated polynucleotide according to Claim 3, wherein said polynucleotide encodes a protein having LuxR transcriptional activation activity.

6-9. (Cancled)

10. (Currently Amended) An isolated polynucleotide, consisting which consists of at least 15 30 consecutive nucleotides of an isolated polynucleotide comprising SEQ ID NO:1 the polynucleotide of Claim 3.

Application No. 09/903,771 Reply to Office Action of

- 11 (Original): The isolated polynucleotide of Claim 10 which comprises SEQ ID NO:3.
 - 12 (Original): A vector comprising the isolated polynucleotide of Claim 1.
 - 13 (Original): A vector comprising the isolated polynucleotide of Claim 3.
 - 14 (Original): A host cell comprising the isolated polynucleotide of Claim 1.
 - 15 (Original): A host cell comprising the isolated polynucleotide of Claim 3.
- 16. (Previously Presented) The host cell of Claim 14, which is a Coryneform bacterium.
- 17. (Previously Presented) The host cell of Claim 15, which is a Coryneform bacterium.
- 18. (Previously Presented) The host cell of Claim 14, wherein said host cell is selected from the group consisting of Corynebacterium glutamicum, Corynebacterium acetoglutamicum, Corynebacterium acetoacidophilum, Corynebacterium melassecola, Corynebacterium thermoaminogenes, Brevibacterium flavum, Brevibacterium lactofermentum, and Brevibacterium divaricatum.

Application No. 09/903,771 Reply to Office Action of

19. (Previously Presented) The host cell of Claim 15, wherein said host cell is selected from the group consisting of Corynebacterium glutamicum, Corynebacterium acetoglutamicum, Corynebacterium acetoacidophilum, Corynebacterium melassecola, Corynebacterium thermoaminogenes, Brevibacterium flavum, Brevibacterium lactofermentum, and Brevibacterium divaricatum.

20-36 (Canceled)

37 (Original): A method for making LuxR protein, comprising: culturing the host cell of Claim 14 for a time and under conditions suitable for expression of LuxR protein, and collecting the LuxR protein.

38 (Original): A method for making LuxR protein, comprising: culturing the host cell of Claim 15 for a time and under conditions suitable for expression of LuxR protein, and collecting the LuxR protein.

39 (Canceled)